

**Notice of Allowability**

Application No.

10/612,261

Examiner

Yubin Hung

Applicant(s)

CURRY ET AL.

Art Unit

2624

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-16.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 12/11/03, 5/12/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_

JINGGE WU  
PRIMARY EXAMINER

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Kevin Jones on November 13, 2006.

2. The application has been amended as follows:

2.1 (Specification) P. 12, 2<sup>nd</sup> paragraph, lines 3 and 12: Replace "Segment (SEG) **234**" with "SCL Scale **224**"

2.2 (Specification) P. 16, 2<sup>nd</sup> paragraph, lines 3 and 5: Replace "**506**" with "**508**"

2.3 Claim 1, line 2: Replace "multiple" with "mixed"

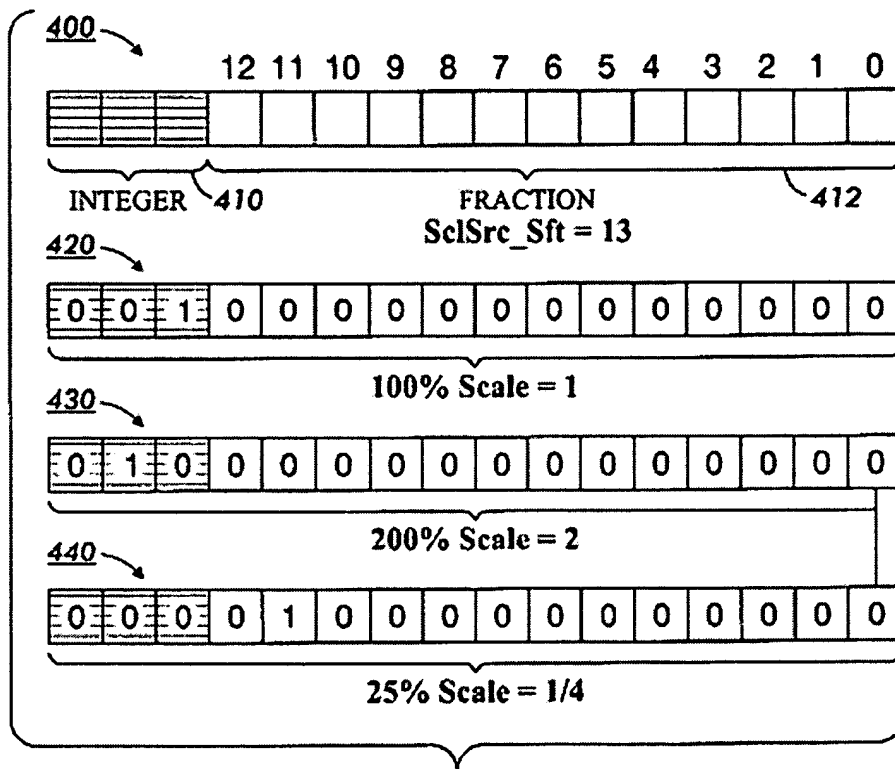
2.4 Claim 1, line 7: Replace "being located" with "being non-uniformly located"

2.5 Claim 9, line 4: Replace "being located" with "being non-uniformly located"

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2.6 Cancel claims 17-19

2.7 Replace Fig. 6 with the following:



**FIG. 6**

***Allowable Subject Matter***

3. Claims 1-16 are allowed.

4. The following is an examiner's statement of reasons for allowance:

4.1 Regarding claim 1, and similarly claim 9, closest art of record Schwartz (US 5,644,509) discloses a transform table creation system that provides non-uniform grid point spacing that is linearly related to the distance from a central point in a region of interest; Metcalfe (US 5,809,181) discloses a color conversion apparatus that use non-uniform color space conversion intervals to minimize errors; Katougi et al. (US 6,118,549) discloses a color conversion device that uses a tetrahedral interpolator with non-uniform spacing to accommodate some characteristics of natural images; additionally, it is well known to one of ordinary skill in the art that division by a factor that is a power of two can be efficiently implemented as shift operations in hardware.

However, none of the above, discloses, teaches or suggests, nor is there motivation to combine them to obtain, the step of selecting nodes that are non-uniformly located, the distance between each adjacent pair having a value that is a power of two, for converting an input value (e.g., by interpolation) into an output value, as recited in claim 1.

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5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion and Contact Information***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- Fukasawa et al. (US 6,825,958) – discloses a color conversion method that uses interpolation with non-uniform intervals
- Kletter (US 6,975,311) – discloses a method that uses power-of-2 distances
- Payne et al. (US 6,674,435) – discloses a method for integer Bezier-curve-to-polygon conversion that uses power-of-2 steps

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yubin Hung whose telephone number is (571) 272-7451. The examiner can normally be reached on 7:30 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on (571) 272-7429. The fax

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phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yubin Hung  
Patent Examiner  
Art Unit 2624

November 14, 2006

  
JINGGEWU  
PRIMARY EXAMINER